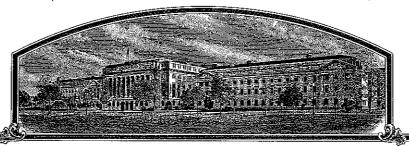
No.



200200217

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS SHALL COME:

PLI International Seeds and Rutgers, The State University of New Iersey

HUCCUS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT (S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT (S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY TEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC TELENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE HTTO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE. OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROPAGATION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

RYEGRASS, PERENNIAL

'All*Star2'

In Testimon Marret. I have hereunto set my hand and caused the seal of the Plant Unriety Protection Office to be affixed at the City of Washington, D.C. this fifteenth day of June, in the year two thousand and five.

Attest:

Commissioner Plant Variety Protection Office Sgricultural Marketina Service

fary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (T.U.S.C. 2421). Information is held confidential until certificate in issued (T.U.S.C. 2422).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICAT (Instructions and information collection burden statement on reverse)	Application is required in order to determine if a plant varie (7 U.S.C. 2421). Information is held confidential until certification.	ly protection certificate is to be issued licate is issued (7 U.S.C. 2426).
1. NAME OF OWNER 105 DLF Cebeco International Seeds International Seeds	tate University 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME CIS-PR 78	3. VARIETY NAME All*Star ²
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY
PO Box 229 Halsey, OR 97348	541-369-2251	PVPO NUMBER
USA	6. FAX (include area code) 541-369-2251	200200217
		FILING DATE
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) 8. IF INCORPOR STATE OF IN Corporation Orego	1070	august 8,200
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (4	First person listed will receive all papers)	FILING AND EXAMINATION
Stephen W. Johnson		F FEES:
DLF Cebeco International Seeds, Inc.		E & 2/23
A Halsey, OR 97348		R DATE 8/8/2000
4/05		C CERTIFICATION FEE:
		V
		15 432.00
-		DATE 4-26-20
11. TELEPHONE (Include area code) 12. FAX (Include area code) 13. E-	MAIL : 14. CR	OP KIND (Common Name)
541-369-2251 541-369-2251 S	TEVEJ@intlseed.com Pe	erennial Ryegrass
OF MAIN AND AND AND AND AND AND AND AND AND AN	The same of the sa	
Iolium perenne	raminae	THE VARIETY A FIRST GENERATION BRID?
The second secon	Talli IIIae	YES X NO
 CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) 	19. DOES THE OWNER SPECIFY THAT SEED OF THIS N CERTIFIED SEED? See Section 83(e) of the Plant	/ARIETY BE SOLD AS A CLASS OF Variety Protection Act)
a. 🛣 Exhibit A. Origin and Breeding History of the Variety	YES (If "yes", answer items 20 and 21 below)	NO (If "no", go to item 22)
b. X Exhibit B. Statement of Distinctness		
c. X Exhibit C. Objective Description of Variety d. X Exhibit D. Additional Description of the Variety (Optional)	20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES	YES ONO
e. IX Exhibit E. Statement of the Basis of the Owner's Ownership	IF YES, WHICH CLASSES? FOUNDATION	☐ REGISTERED ☐ CERTIFIED
Voucher Sample (2.500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)	21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERAT	IONS? YES NO
9. Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Meil to the Plant Variety Protection Office)	IF YES, SPECIFY THE FOUNDATION NUMBER 1,2,3, etc. (If additional explanation is necessary, please use the specific processes and the specific process of the specific process	REGISTERED CERTIFIED
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?	23. IS THE VARIETY OR ANY COMPONENT OF THE VAR PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR P	
YES 🔲 NO	☐ YES	™ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)	IF YES, PLEASE GIVE COUNTRY, DATE OF FILING O' REFERENCE NUMBER. (Please use space indicated or	R ISSUANCE AND ASSIGNED
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variand is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.		
Owner(s) is(are) informed that false representation herein can jeopardize protection and result in pena		
SIGNATURE OF OWNER W. Muser	SIGNATURE OF OWNER	
NAME (Please priir or type)	NAME (Please print or type)	
Stephen W. Johnson 7-22-02 CAPACITY OF TITLE DATE	CAPACITY OR TITLE	DATE
Director of Research	<u> </u>	

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 tiling fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial Protection will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the tace of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

(1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;

(2) the details of subsequent stages of selection and multiplication;

(3) evidence of uniformity and stability; and

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:

(1) identify these varieties and state all differences objectively;

(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and

- (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety se sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 48 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Approximatructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FROM FROM (Please provide a statement as to the limitation and sequence of generations that may be certified.)

USI CILL

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

USA September 14, 2001

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braitle, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (07-01) designed by the Plant Variety Protection Office with WordPerfect 9.0. Replaces STD-470 (04-01) which is obsolete.

Exhibit A

ORIGIN AND BREEDING HISTORY OF ALL*STAR 2 (CIS-PR 78) PERENNIAL RYEGRASS

All*Star² perennial ryegrass (*Lolium perenne* L.) is a turf-type cultivar selected from the maternal progenies of 26 clones. Over 80 percent of the parental germplasm used in the development of All*Star² originated from plants selected from old turfs of the Mid-Atlantic region of the United States. Additional germplasm traces to plants selected from or related to Manhattan II, Citation II All*Star, Jazz, Loretta and PI 231,597 from Greece. Most of the parental germplasm of Manhattan II, Citation II, All*Star and Jazz also traces to collections from old turfs in the United States.

The majority of the parental germplasm of All*Star² originated from a program to improve perennial ryegrass for turf use initiated by the New Jersey Agricultural Experiment Station. Starting in 1962 a search was made to locate elite perennial ryegrass plants thriving in old turfs throughout much of the United States. The most promising plants were found in warm, humid parts of New York City, New Jersey, Pennsylvania and Maryland. The size, location and appearance of these plants indicated that they originated from seedings made prior to 1940. Clonal evaluation and progeny tests conducted under turf maintenance showed that they had dramatically improved turf performance compared to any other perennial ryegrass available at the time, a darker green color, a lower growth profile and improved resistance to many of the diseases, insects and environmental stresses common to the Mid-Atlantic region of the United States.

An examination of thousands of old lawns, parks, sports fields, cemeteries and golf courses starting in 1962 showed that of the billions of ryegrass seeds used to establish these turfs only a few produced plants able to persist and grow to produce attractive individual plants that were at least three feet in diameter. The most attractive plants were found east of the sheep meadow in Central Park in New York City, in southeast Pennsylvania (the parents of Pennfine and Birdie perennial ryegrasses); in Paterson Park, Riverside Park and a school playground in Baltimore, Maryland; the campus lawn of the University of Maryland, College Park, Maryland; Warinaco Park, Elizabeth, New Jersey; and the Colonia and Atlantic City golf courses near Colonia New Jersey and Atlantic City New Jersey.

Tillers obtained from these selected plants were subsequently evaluated in frequently mowed turf trials. Plants obtained from crosses of the best performing clones were subsequently selected to initiate a long-term germplasm enhancement program using many cycles of phenotypic and genotypic recurrent selection. Phenotypic selection involved (1) selection of darker green, more compact, disease-free, highly tillering seedlings during winter greenhouse tests; (2) inoculation and selecting for resistance to crown rust; (3) selection of attractive, leafy lower-growing, dark-green plants showing higher seed yielding potential in spaced-plant nurseries; (4) selecting attractive plants surviving in closely mowed turf trials subjected to stresses of heat, drought, disease, insects and winter cold. Genotypic selection included extensive evaluation of single-plant progenies in closely mowed turf trials and spaced-plant nurseries. Additional germplasm was added to

the program as opportunities developed. Separated breeding composites were developed to help maintain genetic diversity and reduce inbreeding.

Following varying cycles of phenotypic and genotypic recurrent selection a several plants were crossed at Adelphia, New Jersey in 1997. Each plant crossed was harvested individually. A portion of the seed from 35 of the plants was used to establish progeny turf plots at Adelphia in the fall of 1997. This group of progenies was designated SJSPR and the individual progenies were numbered 1-35. Residual seed from the 35 SJSPR progenies was sent to Cebeco International Seeds, Inc.'s research station near Tangent, Oregon where in the fall of 1997 it was used to establish a spaced-plant nursery consisting of three replications of 30 plants from each family.

During the spring of 1998 96 fine leaved dark green plants were selected from 26 of the families in the SJSPR nursery that had good performance in turf plots in New Jersey. The families and the number of plants from the family are listed below:

SJSPR	No. plants	SJSPR	No. plants
	-		-
<u>Family</u>	<u>Selected</u>	<u>Family</u>	<u>Selected</u>
2	5	18	4
3	2	20	1
5	11	21	4
6	3	22	2
7	6	23	5
9	8	24	3
10	4	25	1
11	5	26	4
12	1	28	6
13	1	30	4
14	8	32	2
15	1	34	1
16	1	35	3

These selected plants were moved to an isolated nursery and allowed to randomly interpollinate. Following seed set all of the plants were harvested. A bulk was then made of all of the seed of the 80 highest seed yielding plants in the cross. In the fall of 1998 seed from the bulk was used to establish a 2000 plant spaced-plant nursery near Junction City, Oregon. Prior to anthesis in 1999 approximately 30% of the plants in the nursery were removed. Plants that were rogued from the nursery had one or more of the following traits: coarse leaves, lighter green color, high susceptibility to stem rust, or susceptibility to leaf spot. The plants that remained in the nursery were allowed to interpollinate. Seed harvested from these plants was bulk harvested and constitutes the stock seed for the variety All*Star2 (experimental CIS-PR 78). A portion of this seed is maintained by Cebeco International Seeds and may be used to plant new breeder seed fields when necessary.

The variety All*Star² has appeared uniform and stable during multiplication from breeder to foundation generations. All*Star² has a small percentage (<0.25%) of plants that are somewhat taller and coarser than the rest of the population. The percentage of these plants appears to be stable when seed is multiplied from breeder to foundation generation.

Exhibit B

Novelty Statement

All*Star² perennial ryegrass (*Lolium perenne* L.) is a medium-late variety developed for use in turf.

All*Star² is most similar to Brightstar II and Gator 3.

Differences between All*Star² and Brightstar II include, but are not necessarily limited to the following:

1. All*Star² has significantly greater resistance to leaf spot when the cultivars are grown as turf in western Oregon (7.1 vs. 5.3 on 9=no disease scale).

Differences between All*Star² and Gator 3 include, but are not necessarily limited to the following:

1. All*Star² has a significantly more narrow 10 seed width (13.1 mm vs. 14.2 mm).

EXHIBIT C (Ryegrass)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN AND SEED DIVISION BELTSVILLE, MARYLAND 20705 OBJECTIVE DESCRIPTION OF CULTIVARS RYEGRASS (Lolium spp.)

NAME OF APPLICANT(S) and putgers The State University	VARIETY NAME OR TEMPORARY DESIGNATION
International Souds and Rungers, mestate university of	All*Star ²
Men Jersey (BT:5/3/2005)	
ADDRESS (Street and No., of R.P.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY
PO Box 229	PVPO NUMBER
Halsey, OR 97348	200200217
Place the appropriate number that describes the varietal character of this variety in the boxes below number if either 99 or less or 9 or less. Descriptions of characters should represent those that are to data should be for SPACED PLANTS. Give additional description for all characteristics that cannot petrinent comparative trial and evaluation data. The symbol "A" indicates decimal.	runical for the veriety. Danger may be given also. Measures
1. SPECIES: 2 1 = L. MULTIFLORUM (annual or Italian: includes Westerwoldicum) 2 = L. PERENI 2 4 = HYBRID (of species) 5 = OTHER (St	NE (perennial) 3 = L. RIGIDUM (includes Wimmere)
2. PLOIDY: 1 = DIPLOID 2 = TETRAPLOID 3 = OTHER (S)	pecify)
3 DURATION: 3 1 = ANNUAL OR BIENNIAL 2 = SHORT LIVED PERENNIAL (3-4 years)	3 = PERENNIAL (more than 4 years)
STANDARD CULTIVARS 1 = GULF 2 = WIMMERA 62 3 = LINN	4 = PELO
5 = NORLEA 6 = ABERYSTWYTH S-23 7 = MANHATT 4. MATURITY (50% HEADED) Use standards from above for comparison:	
4. MATURITY (50% HEADED) Use standards from above for comparison: 1 = VERY EARLY 3 = EARLY 5 = MEDIUM 7 = LATE 9 = VERY LATE DAYS EARLIER THAN 5. MATURE PLANT HEIGHT (Use standard cultivars from above) :	<u> </u>
5 0 2 CM, HIGH 8 6 CM, SHORTER THAN CM. TALLER THAN STANDARD CULTIVAR	Pinnacle STANDARD CULTIVAR
6. PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead). Use :	standard cultivars from above for comparison:
1 1 1 U	r damage observed in nursery western Oregon)
7. TURF DENSITY Use standard cultivars from above:	
3 7 6 TILLERS PER 100 SQ. CM.	• The Said Said Said Said Said Said Said Said
LESS TILLERS PER 100 SQ. CM. THAN STANDARD CULTIV	
5 7 MORE TILLERS PER 100 SQ. CM. THAN STANDARD CULTIN	/AR Derby Supreme
8. FLAG LEAF (at full growth) Use standard cultivers from above:	
1 2 8 CM. LENGTH (from ligule to tip) 3 2 MM, WIDT	"H (at widest point) 1 = DEFLEXED
3 1 CM. SHORTER THAN Derby. Supreme STANDARD CULTIV	I FLAGIEAF AT 3 # RECURVED
CM. LONGER THAN	/AR
MM. NARROWER THAN STANDARD CULTIV	

200200217 STANDARD CULTIVARS 3 = LINN 1 - GULF 2 - WIMMERA 62 8 * PENNFINE 5 = NORLEA 6 = ABERYSTWYTH S-23 7 - MANHATTAN LEAVES: 1 = LEAVES ROLLED IN YOUNG SHOOTS VERNATION: 2 = LEAVES SEMI-ROLLED (folded with rolled edges) 3 - LEAVES FOLDED IN YOUNG SHOOTS 1 = YELLOW GREEN 2 - MEDIUM GREEN % PLANTS WITH ANTHOCYANIN IN LOWER LEAF SHEATH FOLIAGE COLOR: 3 = BLUE GREEN 10. SPIKE: MM, SPIKE LENGTH (tip to internode below lowest floret) MM. SHORTER THAN 4 Derby Supreme USE STANDARD CULTIVARS FROM ABOVE MM, LONGER THAN MG, PER TEN SPIKES (trimmed to internode below lowest floret) 5 9 MG. LIGHTER PER TEN SPIKES THAN 3 USE STANDARD CULTIVARS FROM ABOVE MG. HEAVIER PER TEN SPIKES THAN .Elka. . 4 FLORETS PER SPIKELET PERCENTAGE OF PLANTS WITH: % SMOOTH % ROUGH RACHIS: 0 0 % GREEN % PURPLE SPIKE COLOR: LEMMA: % AWNED MM, AWN LENGTH 1 = SPIKELET LENGTH NEARLY EQUAL TO OUTER GLUMES MM. GLUME LENGTH 2 - SPIKELET LENGTH MUCH LONGER THAN OUTER GLUMES 11. COLEOPTILE: % PLANTS WITH ANTHOCYANIN IN COLEOPTILE 12. ANTHER COLOR: % PLANTS WITH WHITE ANTHERS % PLANTS WITH YELLOW ANTHERS % PLANTS WITH PURPLE ANTHERS 13, **ROOT AND PLANT CHARACTERS:** % PLANTS WITH PROSTRATE GROWTH HABIT % PLANTS WITH FLUROESCENT ROOTS % PLANTS WITH UPRIGHT GROWTH HABIT 14. SEED: MM. TOTAL WIDTH

FORM LMGS-470-36 (1-84)

SEEDS

MM, TOTAL LENGTH OF 10

MG. PER 1,000 SEED

9

PAGE 2 OF 3

OF TEN SEEDS

16. DISEASE (0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESIST 8 = HIGHLY RESISTANT): CROWN RUST (Puccinia coronata) DOLLAR SPOT (Sclerotinia) BROWN PATCH (Rhizoctonia) LEAF SPOT (Helminthosporium) 0 MILDEW OTHER (Specify) SNOW MOLD (Typhula) 0 RED THREAD (Corticium) INSECT (0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESISTANT, 8 = HIGHLY RESISTANT): (Specify) . GIVE RESEMBLANCE VALUE IN LEFT COLUMN AND VARIETY CODE NUMBER IN RIGHT COLUMN FOR VARIETY WITH WHICH COMPARISON IS MADE (1 = LESS THAN, 2 = SAME AS, 3 = MORE ERECT, MORE RESISTANT, DENSER, MORE PERSISTENT, DARKER OR GREATER HEIGHT.): RESEMBLANCE CHARACTER SIMILAR VARIETY PLANT HABIT (erectness) 1 = GULF TILLERING 2 = WIMMERA 62 WINTER HARDINESS 3 = LINN HIGH TEMP. STRESS RESISTANCE 4 = PELO TURF PERSISTENCE 9 5 = NORLEA PLANT COLOR 6 = ABERYSTWYTH S-23 VERTICAL SEEDLING GROWTH RATE 7 = MANHATTAN CROWN DENSITY 8 = PENNFINE 9= Brightstar II MOWER SHREDDING RESISTANCE

18. GIVE AREA OF ADAPTATION AND INTENDED USE: A11*Star2's area of adaptation includes western Oregon,

19. GIVE AREA TEST RESULTS PRESENTED FROM: Tangent, Oregon - Concord silty loam

COMMENTS:

Table 1.

Heading dates of perennial ryegrass varieties grown near Tangent, Oregon in 2000 and 2001.

NAME	2000 Heading Date	2001 Heading Date	00-01 Heading Date Average
Linn	May 2	May 8	May 5
Manhattan II	May 15	May 19	May 17
Derby Supreme	May 16	May 18	May 17
Pinnacle	May 16	May 19	May 18
Stellar	May 17	May 21	May 19
Essence	May 18	May 24	May 21
Kokomo	May 20	May 23	May 22
Brightstar II	May 20	May 24	May 22
All*Star2	May 21	May 25	May 23
Gator3	May 21	May 25	May 23
Cabo	May 22	May 26	May 24
CIS-PR 84	May 22	May 26	May 24
CIS-PR 75	May 22	May 27	May 25
Manhattan	May 27	May 29	May 28
Eika	June 5	June 6	June 6

Exhibit D

Table 2.

Morphology of perennial ryegrass varieties grown near Tangent, Oregon in 2000 and 2001. Trial consisted of three replications with 20 plants per replication. LSD determined from two-way analysis of variance.

2001 00-01 Avg. lag Leaf Flag Leaf																6.0
2000 2 Flag Leaf Fla																
00-01 Avg. Flag Leaf Length	14.9	15.9	13.3	13.0	13.3	13.2	11.7	12.8	13.3	12.5	11.3	12.0	12.2	12.6	11.9	
2001 Flag Leaf Length	14.2	14.5	11.5	11.9	12.0	10.9	12.3	11.5	12.8	11.5	9.7	10.9	12.0	10.6	11.2	2.6
2000 Flag Leaf Length	15.7	17.2	15.1	14.1	14.6	15.6	11.0	14.1	13.8	13.6	12.9	13.2	12.5	14.7	12.6	2.9
00-01 Avg. First Internode Length	22.2	21.4	19.5	18.7	18.1	15.4	14.4	15.8	16.2	16.6	16.8	17.6	17.9	13.2	11.7	
2001 First Internode Length	17.9	17.7	15.6	14.1	14.2	12.4	11.5	14.9	14.1	16.8	14.6	16.1	17.5	10.1	11.4	3.7
2000 First Internode Length	26.5	25.0	23.4	23.2	22.1	18.3	17.4	16.6	18.3	16.5	19.0	19.0	18.3	16.3	12.0	3.7
00-01 Avg. Spike Length	20.1	20.9	19.4	16.9	17.5	17.9	15.8	15.5	15.7	16.0	15.7	15.0	15.3	15.2	15.6	
Spike Length	6:21	17.8	16.6	14.7	15.7	15.6	15.4	14.7	14.3	14.8	13.5	13.6	13.8	13.3	14.6	1.9
2000 Spike Length									1							2.3
00-01 Avg. Plant Height	76.7	72.8	66.3	58.8	56.1	57.6	53.5	50.2	51.3	50.7	50.3	51.0	50.2	50.0	40.9	
2001 Plant Height	70.2	66.4	61.4	53.4	48.9	52.3	47.9	43.0	45.2	44.7	44.2	45.8	44.6	44.5	39.0	3.2
2000 Plant Height	83.2	79.3	71.2	64.1	63.3	62.8	59.2	57.3	57.3	56.7	56.3	56.2	55.9	55.5	42.7	6.1
N N	Linn	Derby Supreme	Manhattan II	Pinnacle	Essence	Manhattan	Brightstar II	All*Star2	CIS-PR 84	Gator 3	CIS-PR 75	Stellar	Cabo	Kokamo	Elka	LSD @ 0.05

Exhibit D

Table 3.

Tillers per 100 square centimeters of Perennial ryegrass varieties grown under turf culture near Tangent, Oregon

NABAT	1999 Trial Tillers per	2000 Trial Tillers per	Average Tillers per
NAME	100 sq cm	100 sq cm	100 sq cm
Cabo	417	374	396
All*Star2	397	354	376
CIS-PR 84	382	350	366
Gator 3	377	362	369
CIS-PR 75	370	364	367
Top Hat	364	358	361
Stellar	363	347	355
Kokomo	359	369	364
Brightstar II	358	323	340
Essence	352	311	332
Derby Supreme	294	265	279
LSD @ 0.05	68	58	

Exhibit D Table μ .

Ratings of perennial ryegrass varieties grown under turf culture near Tangent, Oregon. Three replication trial established September 1999. LSD determined by two-way analysis of variance.

	2000 Color	2001 Color	00-01 average Color	2000 Leaf Spot	2001 Leaf Spot	00-01 average Leaf Spot
NAME	1-9	1-9	1-9	1-9	1-9 9=no disease	1-9
All*Star2	9=dark green 7,5	9=dark green 7.8	9=dark green 7.7	9=no disease 7.7	6.5	9=no disease 7.1
CIS-PR 84	7.7	7.5	7.6	7.0	7.0	7.0
Stellar	6.8	7.3 7.3	7.1	7.0 7.7	6.5	7.1
Cabo	8.0	7.7	7.8	6.3	5.8	6.1
Pizzazz	7.7	6.8	7.3	7.3	6.7	7.0
Gator 3	7.0	6.8	6.9	7.8	6.5	7.2
Kokomo	6.8	6.7	6.8	7.7	7.0	7.3
R 8000	7.0	6.8	6.9	7.2	5.7	6.4
CIS-PR 75	8.0	6.8	7.4	6.8	5.5	6.2
PST-2BR	6.7	6.5	6.6	7.7	6.0	6.8
PST-2L96	7.2	7.0	7.1	7.3	5.2	6.3
PST-2A6B	6.8	6.5	6.7	5.7	5.3	5.5
CIS-PR 83	6.8	6.5	6.7	4.7	6.0	5.3
Brightstar II	7.0	6.7	6.8	5.8	4.7	5.3
PST-CRL	6.5	6.7	6.6	5.8	5.5	5.7
CIS-PR 82	6.3	7.2	6.8	5.8	5.7	5.8
MP 107	7.5	6.7	7.1	4.7	4.0	4.3
PST-2SLX	7.2	6.3	6.8	5.5	4.5	5.0
Paragon	5.7	5.8	5.8	6.3	5.2	5.8
Promise	6.7	6.5	6.6	6.0	5.0	5.5
MP 103	7.5	6.5	7.0	5.5	3.5	4.5
CIS-PR 77	7.0	6.8	6.9	4.5	4.8	4.7
CIS-PR 81	5,7	6.3	6.0	3.7	4.3	4.0
Palmer III	5.2	5.8	5.5	4.5	4.8	4.7
Ascend	6.3	6.0	6.2	5.2	4.7	4.9
Majesty	6.0	5.8	5.9	4.5	4.7	4.6
PST-2CRR	5.8	5.8	5.8	4.7	4.0	4.3
PST-2SBE	6.3	6.0 6.2	6.2 6.1	3.3 4.7	3.8 4.7	3.6 4.7
CIS-PR 91	6.0 6.3	6.0	6.2	4.7	4.8	
CIS-PR 70 CIS-PR 74	5.2	5.2	5.2 5.2	4.3 3.8	4.5 4.5	4.6 4.2
PST-CATS	6.0	6.0	6.0	4.0	4.2	4.1
CIS-PR 76	6.2	6.0	6.1	5.3	4.5	4.9
PST-2LA	5.8	6.2	6.0	4.3	4.0	4.2
Divine	5.2	5.2	5.2	5.0	3.7	4.3
PST-2RT	5.7	5.7	5.7	4.7	4.0	4.3
CIS-PR 119	5.5	5.5	5.5	4.3	4.5	4.4
PST-2M4	5.7	5.8	5.8	5.5	4.5	5.0
Catalina	5.2	5.8	5.5	4.5	3.7	4.1
Top Hat	4.3	5.2	4.8	4.8	4.7	4.8
Platinum	4.8	5.0	4.9	4.0	4.7	₹4.3
Charger II	4.3	5.3	4.8	4.2	3.8	4.0
PST-2JH	5.7	5.2	5.4	4.2	3.5	3.8
Manhattan 3	5.7	5.8	5.8	4.2	3.8	್ಷ 🛁 4.0
Premier	4.5	4.7	4.6	2.8	4.3	~jj 3,6
Evita	2.3	3.8	3.1	4.8		5,2
Essence	4.3	4.5	4.4	3,3	3.5	3.4
Boulevard	4.2	4.5	4.3 ⁻	2.7	4.3	3.5
Road Runner	4.5	4.8	4.7	4.3	4.0	4.2
Rhapsodie	2.7	3.3	3.0	5.2	5.0	5.1
Affinity	3.8	4.3	4.1	4.3	3.8	4.1
R2	3.0	4.0	3.5	2.7	3.8	3.3
Renoir	3.0	3.2	3.1	2.7	4.3	3.5
Avenue	3.7	3.7	3.7	1.8	3.0	2.4
Elka	3.2	3.2	3.2	1.5	4.5	3.0
Gator II	3.5	4.5	4.0	3.7	4.3	4.0
Dali Chamall	3.3	3.2	3.3	2.2	4.0	3.1
Chagall	2.8	3.2	3.0	2.7	4.0	3.3
Buccaneer Milton	3.7	4.2	3.9	4.2	3.7	3.9 3.5
Milton YatsuGreen	3.0 2.8	3.5	3.3	2.7	4.3	3.5 3.2
YatsuGreen Derby Supreme	2.6 3.2	3.5 3.2	3.2 3.2	3.2 2.8	3.2 3.7	3.2 3.3
Linn	3.∠ 1.5	3.2 1.3	3.2 1.4	∠.o 1.7	2.5	2.1
LSD @ 0.05	0.9	0.7	1.7	1.2	1.0	<u> </u>

Exhibit D

Table 5.

Spike Characteristics of perennial ryegrass varieties grown near Tangent, Oregon in 2000 and 2001. Trial consisted of three replications with 20 plants per replication. LSD determined from two-way analysis of variance.

	2000	2001	00-01	2000	2001	00-01	2000	2001	00-01	2000	2001	00-01
	Weight of	Weight of	Weight of	Glume	Glume	Glume	Spikelet	Spikelet	Spikelet	No. of	No. of	No. of
NAME	10 Spikes (mg)	10 Spikes (mg)	10 Spikes (mg) 10 Spikes (mg) 10 Spikes (mg) Length	Length(mm)	Length(mm)	Length(mm)	Length(mm)	Length(mm)	Length(mm)	Florets	Florets	Florets
Manhattan	3957	3167	3562	10.3	9.0	9.7	15.2	15.2	15.2	8.3	9.7	0.6
Linn		2930	3330	14.0	11.7	12.8	19.5	16.6	18.1	9.7	9.7	9.7
Derby Supreme		2853	3123	11.5	9.0	10.3	16.7	15.0	15.8	10.7	9.7	10.2
Brightstar II		2840	3032	10.0	0.6	9.5	16.3	15.0	15.7	11.7	10.0	10.8
Manhattan II		2693	2912	10.8	8.7	8.6	17.5	15.5	16.5	6.7	11.3	10.5
Essence		2837	2853	10.3	8.5	9.4	12.7	13.0	12.8	9.7	10.3	10.0
Pinnacle		2703	2773	9.7	7.7	8.7	17.0	15.0	16.0	11.7	11.0	11.3
Kokomo		2523	2653	8.0	7.7	7.8	15.7	14.9	15.3	11.7	12.0	11.8
Stellar		2410	2547	8.0	7.2	7.6	15.5	13.5	14.5	11.7	11.0	11.3
Cabo		2707	2693	10.2	8.3	9.3	17.7	15.7	16.7	10.7	10.3	10.5
All*Star2		2587	2593	9.2	7.7	8.4	14.0	14.2	14.1	12.0	10.3	11.2
CIS-PR 84	2493	2437	2465	7.0	7.5	7.2	12.8	10.5	11.7	10.7	9.3	10.0
Elka		2480	2458	7.0	7.0	7.0	11.0	10.8	10.9	8.7	8.7	8.7
Gator3		2380	2403	7.8	8.0	7.9	12.3	12.6	12.5	9.7	10.7	10.2
CIS-PR 75		2230	2217	10.3	7.3	8.8	15.0	15.0	15.0	10.7	11.0	10.8
LSD @ 0.05	325	314		2.6	1.8		1.9	1.9		2.2	1.5	

Exhibit D

Table 6,

Seed Characteristics of perennial ryegrass varieties grown near Tangent, Oregon in 2000 and 2001. Trial consisted of three replications with 20 plants per replication. LSD determined from two-way analysis of variance.

	2000	2001	00-01	2000		00-01	2000	2001	00-01
	1000 Seed	1000 Seed	1000 Seed	10 Seed		10 Seed	10 Seed	10 Seed	10 Seed
NAME	Weight (mg)	Weight (mg)	Weight (mg)	Length (mm)		Length (mm)	Width (mm)	Width (mm)	Width (mm)
· Linn	3466.4	1971.9		67.7	l	63.4	16.3	15.0	15.7
Derby Supreme		1758.7	2093.3	53.0	43.5	48.3	13.3	14.3	13.8
Brightstar II		1920.0	2148.3	54.3	44.8	49.6	14.0	13.8	13.9
Manhattan II		1758.5	2019.8	63.3	54.1	58.7	13.3	13.5	13.4
Pinnacle	2213.2	1770.2	1991.7	59.3	55.7	57.5	13.3	14.5	13.9
Cabo	2154.2	1877.1	2015.6	54.0	44.9	49.5	13.3	13.8	13.6
Gator 3	2142.0	1874.5	2008.2	55.0	46.5	50.7	14.0	14.5	14.2
Kokomo	2116.3	1753.0	1934.6	56.0	53.3	54.6	13.3	15.1	14.2
All*Star2	2030.6	1837.0	1933.8	49.7	47.0	48.3	13.0	13.1	13.1
Manhattan	1978.6	1451.6	1715.1	60.7	52.6	56.6	13.0	14.3	13.7
CIS-PR 75	1946.8	1803.2	1875.0	51.3	45.3	48.3	13.3	12.8	13.1
Stellar	1762.0	1444.9	1603.5	53.0	43.9	48.5	12.3	14.5	13.4
Essence	1669.4	1638.9	1654.1	47.0	42.3	44.6	11.3	11.0	11.2
Elka	1530.6	1383.5	1457.0	51.7	44.0	47.8	12.0	12.2	12.1
CIS-PR 84	1439.5	1541.5	1490.5	51.7	42.3	47.0	12.0	12.4	12.2
LSD @ 0.05	243.7	164.2		2.8	4.7		0.8	1.2	

AGRICULTURAL MARKETING SERVICE	Application is required in order to det certificate is to be assued (7 U.S.C. 2	
EXHIBITE	confidential until the certificate is issu	ed (7 U.S.C. 2426).
STATEMENT OF THE BASIS OF OWNERSHIP		
1. NAME OF APPLICANT(S) and Rutgers, The	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Cebeco International Seeds Inc.	CIS-PR 78	All*Star ²
State University of New Jersey (BT: 5/3/2005) 4. ADDRESS (Street and No. Co. R.F. D. No. City, State, and ZIF, and Country)	5. TELEPHONE (Hidude area code)	5. FAX (Include area code)
PO Box 229/175 West 'H' Street Halsey, OR 97348	541-369-2251	541-369-2640
USA	7, PVPO NUMBER	
	1 2002,002	<i>1</i> 7
8. Does the applicant own all rights to the variety? Mark an "X" in the	appropriate block If no please expl	aln VES
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9. Is the applicant (individual or company) a U.S. National or a U.S. b	aced company? If no give name of a	ountry VEC
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10. Is the applicant the original owner? X YES NO	If no, please answer one of the fol	lowing:
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 a. If the original rights to variety were owned by individual(s), is (a 	are) the original owner(s) a U.S. Nation	al(s)?
YES NO	If no, give name of country	
 b. If the original rights to variety were owned by a company(ies), 	is (are) the original owner(s) a U.S. ba	sed company?
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11. Additional explanation on ownership (If needed, use the reverse for	or extra space):	
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